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NOTICE OF ALLOWANCE AND FEE(S) DUE

2202

7590

07/14/2008

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

MONIKANG, GEORGE C

ART UNIT PAPER NUMBER

2615 DATE MAILED; 07/14/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,862	06/14/2006	Bunkei Matsuoka	0925-0230PUS1	5958

TITLE OF INVENTION: SPEAKER-CHARACTERISTIC METHOD AND SPEAKER REPRODUCTION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/14/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

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CURRENT CORRESPOND		Fee(s paper	s) Transmittal. Thi rs. Each additiona	s certif l paper	icate cannot be used for	domestic mailings of the or any other accompanying at or formal drawing, must		
BIRCH STEW PO BOX 747 FALLS CHURC		I hen State addre trans	eby certify that the	is Fee(s	of Mailing or Transus) Transmittal is being ficient postage for first ISSUE FEE address at 1) 273-2885, on the date	nission deposited with the United class mail in an envelope above, or being facsimile te indicated below.		
								(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/582,862	06/14/2006		Bunkei Matsuoka		amios i aviamos a	0	925-0230PUS1	5958
APPLN, TYPE	SMALL ENTITY	IERISTIC METHOD AN	PUBLICATION FEE D		PREV. PAID ISSU		TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO NO	\$1440	\$300	OE	\$0	3 14515	\$1740	10/14/2008
EXAM		ART UNIT	CLASS-SUBCLASS			\$1740	10/14/2008	
		2615	381-071100					
MONIKANG, GEORGE C 2615 Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a					
ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
a. The following fee(s) Issue Fee Publication Fee (N Advance Order	b. Payment of Fee(s): (A check is enclos Payment by credi	Pleas ed. t card	se first reapply and the second secon	is atta	iously paid issue fee s ched. required fee(s), any def	hown above)		
a. Applicant claim	stus (from status indicated as SMALL ENTITY statu	us. See 37 CFR 1.27.					ΓΙΤΥ status. See 37 CF	
NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in the terest as shown by the records of the United States Patent and Trademark Office.								
Authorized Signature	Authorized Signature Date							
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n application. Confiden ubmitting the completed his form and/or suggesti	tiality is governed by 35 d application form to the ions for reducing this bu. Virginia 22313-1450. DC	U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th	1.14. This collection i depending upon the i e Chief Information O	s esti ndivi ffice:	mated to take 12 r dual case. Any co r. U.S. Patent and	ninutes mment Traden	to complete, including s on the amount of tim nark Office, U.S. Depa	by the USPTO to process) g gathering, preparing, and he you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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10/582,862 06/14/2006		Bunkei Matsuoka	0925-0230PUS1	5958	
2292 7:	590 07/14/2008		EXAM	INER	
BIRCH STEWA	RT KOLASCH & B	MONIKANG, GEORGE C			
PO BOX 747		ART UNIT	PAPER NUMBER		
FALLS CHURCH	, VA 22040-0747		2615		
			DATE MAILED: 07/14/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
	10/582,862	MATSUOKA ET AL.					
Notice of Allowability	Examiner	Art Unit					
	GEORGE C. MONIKANG	2615					
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS					
2. X The allowed claim(s) is/are <u>1-4,7-17 and 20-28</u> .							
3. ☑ Acknowledgment is made of a claim for foreign priority under a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☑ Certified copies of the priority documents have 3. ☑ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).	e been received. e been received in Application No. <u>1</u>						
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.							
5. CORRECTED DRAWINGS (as "replacement sheets") mus							
(a) ☐ including changes required by the Notice of Draftspers	•	-948) attached					
1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of							
each sheet. Replacement sheet(s) should be labeled as such in t							
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 							
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 5/4/2007, 6/14/2006 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal I 6. Interview Summary Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Statem 9. Other	y (PTO-413), ate					

DETAILED ACTION

Allowable Subject Matter

Claims 1-4, 7-17 & 20-28 are allowed.

The following is an examiner's statement of reasons for allowance:

Referring to claim 1, the Elliott et al reference (US Patent 5,727,066) discloses speaker characteristic compensation method, for input signals to the speakers, a process of reducing crosstalk that (fig. 2), occurs between the speakers: a first direct processing step of processing an input signal to be a direct component to the other speaker (fig. 2: C11); a first cross processing step of processing an input signal to the one speaker (fig. 2: C21); a first addition step of adding respective signals obtained through the first direct processing step and the first cross processing step (fig. 2); a second direct processing step of processing an input signal to be a direct component to the one a second cross processing step of processing an input signal to the other speaker (fig. 2: C22), thereby obtaining a cross component to the one speaker (fig. 2: <u>C12</u>); and a second addition step of adding respective signals obtained through the second direct processing step and the second cross processing step (fig. 2); wherein the first direct processing step is based on a transfer characteristic through, which a driving signal for driving the one speaker is transformed by at least an amplifier characteristic or a speaker characteristic and emitted from the one speaker (fig. 2; col. 4, lines 54-61); the second direct processing step is based on a transfer characteristic through which a driving signal for driving the other speaker is transformed by at least an amplifier characteristic or a speaker characteristic and emitted from the other speaker

(<u>fig. 2; col. 4, lines 54-61</u>). The Elliott et al reference taken alone or in combination with another reference does not disclose or fairly suggest a speaker characteristic compensation method where the cross processing step is based on a transfer characteristic through which a driving signal for driving the one speaker is transformed by an inner case acoustic as recited in independent claim 1.

Claims 14 & 27-28 are allowable for the same reasons stated above.

Claims 2-4 & 7-13 depend on claim 1. Claims 15-17 & 20-26 depend on claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE C. MONIKANG whose telephone number is (571)270-1190. The examiner can normally be reached on M-F. alt Fri. Off 7:30am-5:00pm (est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2615

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George C Monikang/ Examiner, Art Unit 2615

7/3/2008

/Vivian Chin/ Supervisory Patent Examiner, Art Unit 2615